

3166R-01

What is claimed is:

1. A lubricant composition suitable for lubricating a direct fuel injection two-stroke engine, comprising:

- 5 (a) at least about 40 percent by weight of an oil of lubricating viscosity;  
(b-1) about 0.5 to about 8 percent by weight of at least one condensation product of a fatty hydrocarbyl monocarboxylic acylating agent with an amine or ammonia, and

- 10 (b-2) about 0.5 to about 8 percent by weight, based on the lubricant composition, of at least one Mannich dispersant;

(c) 0 to about 45 percent by weight of a combustible solvent having a viscosity of less than  $2 \text{ mm}^2\text{s}^{-1}$  (cSt) at  $100^\circ\text{C}$ ; and

(d) 0 to about 3 percent by weight of an antioxidant;

- 15 provided that the total amount of (b-1) plus (b-2) plus any dispersants in the lubricant composition other than (b-1) and (b-2) is at least about 1.5 percent by weight, further provided that the total nitrogen content in the lubricant composition is about 0.25 to about 0.75 percent by weight.

- 20 2. The lubricant composition of claim 1 further comprising (b-3) about 0.5 to about 8 percent by weight of at least one additional dispersant of a type other than (b-1) and (b-2).

3. The lubricant composition of claim 2 wherein the additional dispersant (b-3) is an alkyl amino phenol dispersant, a mono-succinimide dispersant, a hydrocarbyl-amine dispersant, a polyether dispersant, or a coupled phenol dispersant.

- 25 4. The lubricant composition of claim 1 wherein the condensation product of (b-1) is the condensation product of a fatty acid having about 12 to about 24 carbon atoms with a polyamine.

5. The lubricant composition of claim 4 wherein the fatty acid comprises isostearic acid and the polyamine comprises tetraethylenepentamine.

- 30 6. The lubricant composition of claim 1 wherein the Mannich dispersant of (b-2) is the reaction product of a polybutene-substituted phenol, formaldehyde, and ethylenediamine or dimethylamine.

7. The lubricant of claim 1 admixed with a major amount of liquid fuel composition.

8. A method of lubricating a direct fuel injection two-cycle engine, comprising supplying the lubricant composition of claim 1 to the engine.

9. The method of claim 8 wherein the lubricant composition is admixed with a major amount of a liquid fuel composition, and the resulting mixture is  
5 supplied to the engine.